

REMARKS/ARGUMENTS

1.) Claim Amendments

In order to expedite prosecution, the Applicants have cancelled claims 40-45 and 48-50, without prejudice or disclaimer. Accordingly, claims 26-39, 46 and 47 remain pending in the application.

2.) Claim Rejections – 35 U.S.C. §102(e)

The Examiner rejected claim 48 as being anticipated by Sampath (U.S. Patent Publication No. 2003/0012308). In order to expedite prosecution, the Applicants have cancelled claims 48 and, therefore, the Examiner's rejection thereof is moot.

3.) Claim Rejections – 35 U.S.C. §103(a)

The Examiner rejected claims 1-47 and 49-50 as being unpatentable over Sampath in view of Moose (U.S. Patent Publication No. 2002/0065047). The Applicants traverse the rejections.

Claim 26 recites:

26. A method in a receiver unit to receive communication signals from a transmitter unit via a multi-path channel, said method comprising the steps of:

estimating parameters of a channel filter function of said channel from said received communication signals from the transmitter unit;

sub-dividing the channel filter function into two or more parts, a function of which representing an approximation of the estimated full channel filter function;

representing the complex parameters of at least a selection of said parts of the channel filter function as actual parameter values, or as incremental values indicating the difference to a reference value; and,

composing a channel measurement message to be transmitted to the transmitter unit of a portion including said parameter representations and a portion indicating the manner of representing said parameters. (emphasis added)

As recited in claim 26, the Applicants invention is directed to a method in a receiver unit to receive communication signals *from* a transmitter unit via a multi-path channel.

Parameters of a channel filter function are estimated as a function of received communication signals *from* the transmitter unit, performing additional processing functions, then composing a channel measurement message to be transmitted to the transmitter unit.

In rejecting claim 26, the Examiner relies solely on the teachings of Sampeth except with respect to the claim limitation relating to “incremental values indicating the difference to a reference value.” Although the Examiner begins by asserting that Sampeth discloses “a method in a receiver unit” (emphasis added), he then proceeds to map the elements of claim 26 onto various portions of Sampeth that relate to a transmitter. For example, with respect to the claimed function of “sub-dividing the channel filter function into two or more parts,” which is performed in the claimed receiver unit, the Examiner states that Sampeth, in paragraph 26, “explains that the base station controller 102 controls the transmit antenna 111 to transmit a signal . . .” (emphasis added) The Examiner then proceeds, on page 4 of the office action, to twice repeat various statements regarding the teachings of Sampeth, referring to paragraphs 27 and 28 thereof, without connecting such teachings to any particular element of claim 26. Although the Examiner states that “[i]n OFDM systems, the **bandwidth** is divided into narrow frequency bands” (emphasis added), as stated in paragraphs [0007] and [0024] of Sampeth, the Applicants can find no teaching therein (as confirmed by an electronic search) of any teaching relating to “sub-dividing [a] **channel filter function** into two or more parts, a function of which representing an approximation of the estimated full channel filter function.” Therefore, the Examiner has not established a *prima facie* case of obviousness of claim 26.

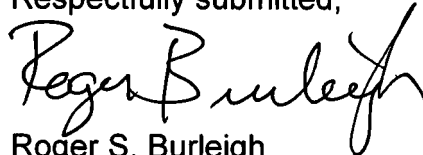
Whereas independent claim 46 recites limitations analogous to those of claim 26, it is also not obvious over Sampeth in view of Moose. Furthermore, whereas claims 27-39 and 47 are dependent from claims 26 and 47, respectively, and include the limitations thereof, they are also not obvious in view of those references.

CONCLUSION

In view of the foregoing amendments and remarks, the Applicants believe all of the claims currently pending in the Application to be in a condition for allowance. The Applicants, therefore, respectfully request that the Examiner withdraw all rejections and issue a Notice of Allowance for claims 26-39, 46 and 47.

The Applicants request a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,



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Date: September 10, 2009

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